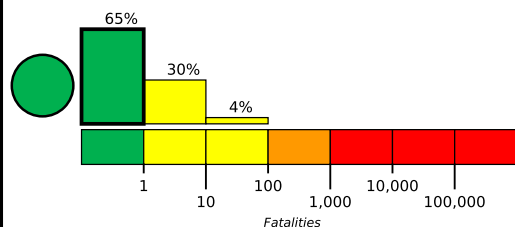# M 5.3, 19 km WSW of Metsavan, Armenia

Origin Time: 2022-02-13 18:25:56 UTC (Sun 22:25:56 local)
Location: 41.1537° N 44.0042° E Depth: 10.0 km
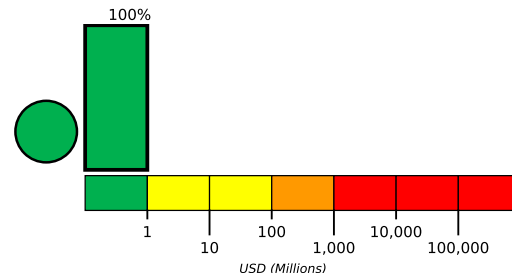
PAGER
Version 5

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

65%
30%
4%

1 10 100 1,000 10,000 100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
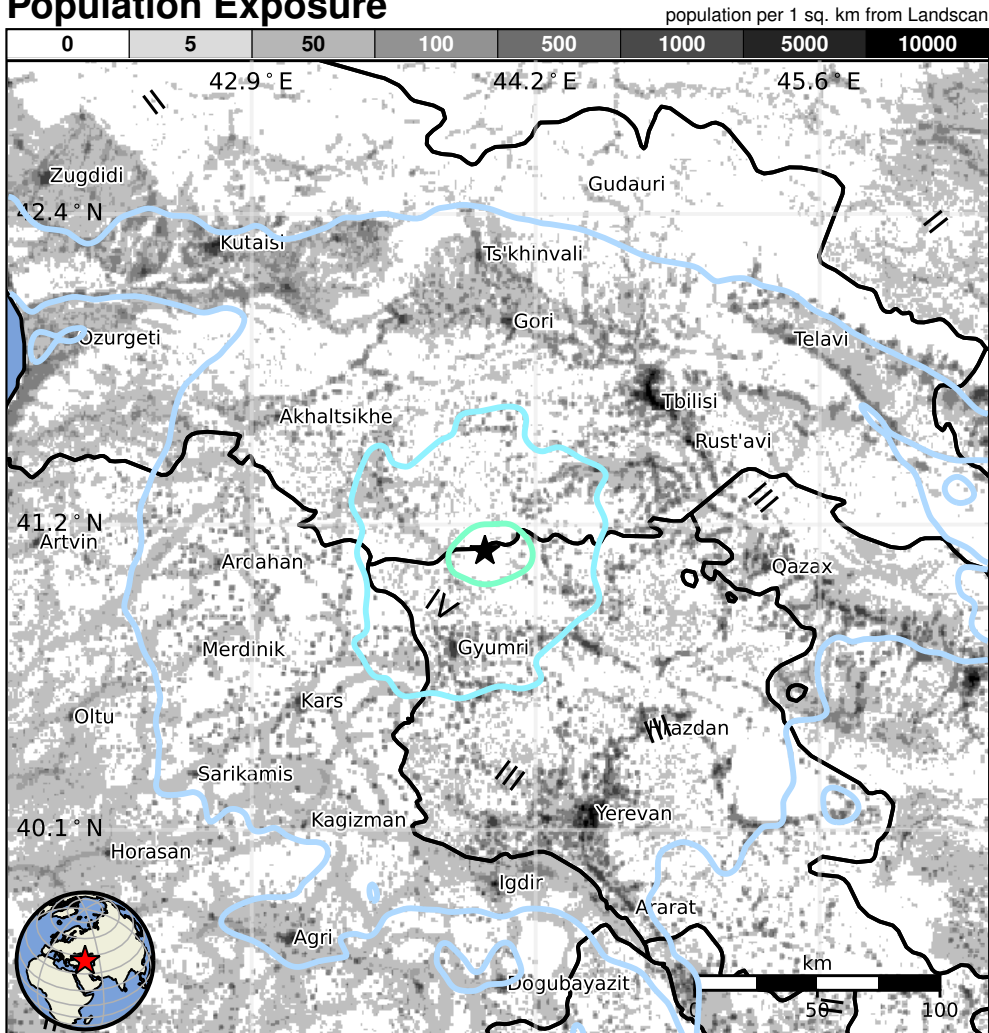
Estimated Economic Losses

100%

1 10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	10,288k	531k	8k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0 5 50 100 500 1000 5000 10000

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block and dressed stone/block masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-04-24	294	4.5	V(35k)	1
1999-02-21	334	5.3	VI(156k)	1
1988-12-07	27	6.7	IX(50k)	25k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Tashir	7k
IV	Metsavan	5k
IV	Norashen	1k
IV	Amasia	2k
IV	Step'anavan	24k
IV	Akhuryan	8k
IV	**Gyumri**	**148k**
III	**Tbilisi**	**1,049k**
III	**Yerevan**	**1,093k**
III	**Kutaisi**	**178k**
II	Ganja	313k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.
Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000gkl5#pager

Event ID: us7000gkl5